



IOBC/WPRS

Integrated Protection of Olive Crops



8th IOBC/WPRS Meeting - Florence, Italy, June 4-7, 2018

Abstract book



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**8th IOBC-WPRS meeting on
“Integrated Protection of Olive Crops”**

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12:45-13:00	POSTER SESSION (Session 1)
Poster n. 1	A novel MLVA assay to genotype <i>Pseudomonas savastanoi</i> strains at inter- and intra-pathovar level <i>Yaseen Jundi Rahi, Maria Claudia Taratufolo, Matteo Cerboneschi, Stefania Tegli, Franco Valentini, Anna Maria D'Onghia, Nicola Sante Iacobellis, Giorgio Mariano Balestra, Angelo Mazzaglia</i>
Poster n. 2	Amplification and sequencing of the Intergenic spacer region (IGS) of <i>Phaeoacremonium</i> spp. and <i>Pleurostomophora richardsiae</i> for the development of specific PCR based detection method <i>Meriem Laidani, Thaer Yaseen, Antonia Carlucci, Maria Luisa Raimondo</i>
Poster n. 3	Evaluating efficacy of baited insecticide applications for the olive fruit fly control: A four year survey on pyrethroid insecticide alpha-cypermethrin <i>Marianna Stavrakaki, Anastasia Kampouraki, John Vontas, Emmanouil Roditakis</i>
Poster n. 4	Control of the olive fruit fly, <i>Bactrocera oleae</i> (Rossi) (Diptera: Tephritidae), with alternative methods to aerial applications with low environmental impact <i>María Teresa Martínez-Ferrer, José Miguel Campos-Rivela, José Miguel Fibla, Juan Francisco Hermoso, David Casadevall, Màrius Simón</i>
Poster n. 5	Toward low environmental impact control strategies: effects of copper and propolis on the <i>Bactrocera oleae</i> endosymbiont, <i>Candidatus Erwinia dacicola</i> <i>Gaia Bigiotti, Roberta Pastorelli, Patrizia Sacchetti, Roberto Guidi, Bruno Bagnoli, Antonio Belcari</i>

13:00-14:30 Lunch

Session 1 (continued)	<i>Integrated management of olive pests and pathogens</i> <i>Chairpersons: David Nestel and Cayo Ramos</i>
14:30-14:45	Fungal community structure of asymptomatic and olive leaf spot-symptomatic leaves <i>Teresa Gomes, José Alberto Pereira, Teresa Lino-Neto, Alison E. Bennett, Paula Baptista</i>
14:45-15:00	Evaluation of copper-alternatives for managing olive knot in California <i>Kevin Nguyen, Helga Förster, James E. Adaskaveg</i>
15:00-15:15	Biology and control of <i>Neofabraea</i> leaf spot and twig lesion of oil olives in California <i>Florent P. Trouillas, Mohamed T. Nouri, Daniel P. Lawrence, Renaud Travadon, Brenna J. Aegerter, Danielle Lightle</i>
15:15-15:30	Sexual chemical ecology of the olive fruit fly, <i>Bactrocera oleae</i> – where from, where to?

FUNGAL COMMUNITY STRUCTURE OF ASYMPTOMATIC AND OLIVE LEAF SPOT-SYMPOMATIC LEAVES

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Microbial interactions in the phyllosphere have been shown to fulfil important functions for plant health. Yet, little is known about such types of microbial interactions in crop pathosystems and if they are influenced by host plant genotype. In this work the endophytic and epiphytic fungal community in olive tree leaves with and without symptoms of olive leaf spot (OLS) disease, from three cultivars with different susceptibilities to OLS was compared. Fungal community was analysed by culture-dependent methods. Results indicate that fungal community differs in size and composition between asymptomatic and symptomatic leaf, especially within epiphytic community. Endophytes varied less probably due to complexity enhancement of interactions, since living host tissues are involved. Host genotype had a structuring effect on the composition of fungal communities only in asymptomatic leaves. Symptomatic leaves displayed a similar fungal community among cultivars, which composition appears to be disease-specific. OLS disease also differentially influenced fungal flora of the three cultivars, and the greatest differences between asymptomatic and symptomatic leaves were observed in the tolerant cultivar. Some fungal taxa were found to be specific to either asymptomatic or symptomatic leaves, which suggest that they might have competitive or cooperative activity with the pathogen, within and outside leaf tissues. The role of these fungi as “pathogen antagonist” or “pathogen facilitator” must be investigated in the future.